

## Drinking Water Quality Summary - September 2020

Shoalhaven Water provides safe and reliable drinking water to approximately 100,000 people in the Shoalhaven on a daily basis. The drinking water we supply is routinely tested throughout our water supply systems with analysis undertaken at independent NATA certified laboratories as per the 2011 Australian Drinking Water Guidelines (ADWG). This detailed water quality monitoring forms part of Shoalhaven Water's framework for the management of drinking water quality. Results are based on samples representative of water supplied to customers' taps. Results for microbiological and key physical/chemical parameters are summarised in the following:

Analyte	ADWG Guideline Health	ADWG Guideline Aesthetic	<	>	Units	Whole of Shoalhaven		Northern Shoalhaven Supply System (Bamarang)		Kangaroo Valley Supply System		Southern Shoalhaven Supply System		Flat Rock Supply System	
						Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance
<i>E. coli</i>	0	c		>0	MPN/100mL	0	100%	0	100%	0	100%	0	100%	0	100%
Aluminium	c	0.2		>0.2	mg/L	0.0467	100%	0.0500	100%	-	-	0.0400	100%	0.0500	100%
Arsenic	c	0.01		>0.01	mg/L	0.0007	100%	0.0010	100%	-	-	0.0005	100%	0.0005	100%
Cadmium	0.002	c		>0.002	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Calcium	10000	c		>10000	mg/L	22.7000	100%	22.8000	100%	-	-	23.4000	100%	21.9000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	1.0114	96.3%	0.9569	94%	1.0350	100.0%	1.1471	100%	1.1300	100%
Copper	2	1		>2	mg/L	0.0643	100%	0.0100	100%	-	-	0.0010	100%	0.1820	100%
Fluoride	1.5	c		>1.5	mg/L	0.9350	100%	0.9700	100%	0.8700	100%	0.9700	100%	0.9300	100%
Hardness	c	200		>200	mg/L	72.5000	100%	72.8000	100%	-	-	73.9000	100%	70.8000	100%
Iron	c	0.3		>0.3	mg/L	0.0067	100%	0.0050	100%	-	-	0.0100	100%	0.0050	100%
Lead	0.01	c		>0.01	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Magnesium	10000	c		>10000	mg/L	3.8433	100%	3.8600	100%	-	-	3.7600	100%	3.9100	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0024	100%	0.0025	100%	-	-	0.0030	100%	0.0016	100%
Mercury	0.001	c		>0.001	mg/L	0.0004	100%	0.0004	100%	-	-	0.0004	100%	0.0004	100%
Nickel	0.02	c		>0.02	mg/L	0.0003	100%	0.0002	100%	-	-	0.0002	100%	0.0006	100%
Nitrate (as NO <sub>3</sub> )	50	c		>50	mg/L	1.0000	100%	1.0000	100%	-	-	1.0000	100%	1.0000	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0500	100%	0.0500	100%	-	-	0.0500	100%	0.0500	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.9183	100%	7.9273	100%	7.7100	100%	7.9553	100%	7.8944	100%
Selenium	0.01	c		>0.01	mg/L	0.0035	100%	0.0035	100%	-	-	0.0035	100%	0.0035	100%
Silver	0.1	c		>0.1	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Sodium	c	180		>180	mg/L	11.0000	100%	11.0000	100%	-	-	11.0000	100%	11.0000	100%
Sulfate	500	250		>500	mg/L	21.0000	100%	20.0000	100%	-	-	20.0000	100%	23.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	108.0000	100%	108.0000	100%	-	-	110.0000	100%	106.0000	100%
True Colour	c	15		>15	HU	0.6667	100%	0.5000	100%	-	-	0.5000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.1465	100%	0.1275	100.00%	0.0300	100%	0.1967	100%	0.2311	100%
Uranium	0.017	c		>0.017	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Zinc	c	3		>3	mg/L	0.0500	100%	0.0500	100%	-	-	0.0500	100%	0.0500	100%

<sup>1</sup> Note that the Australian Drinking Water Guidelines (ADWG) specifies water quality standards that are considered safe for people to drink over an entire lifetime. Therefore compliance is based on a statistical measure of results rather than absolute figures.

<sup>2</sup> TDS = Total Dissolved Solids

<sup>3</sup> Corrective action taken for E.coli exception and the repeat test result was compliant (all clear). Contact Shoalhaven Water for further information.

- Denotes that this analyte was not tested this month due to either the treatment plant being offline or the required frequency resulted in no sample required for this month.

c Health or Aesthetic limits have not been set by the ADWG.

+ Inadvertent omission

Australian Drinking Water Guidelines 2011:

<http://www.nhmrc.gov.au/guidelines/publications/eh52>